



PTO/SB/08A (08-03)

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/716,310
				Filing Date	November 18, 2003
				First Named Inventor	Abdul Malik
				Art Unit	1723
				Examiner Name	Ernest G. Therkorn
Sheet	1	of	86	Attorney Docket Number	USF-236XT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
EGT	U1	US-5,703,271	12-30-1997	Newkome <i>et al.</i>	All
EGT	U2	US-5,886,126	03-23-1999	Newkome <i>et al.</i>	All
EGT	U3	US-5,886,127	03-23-1999	Newkome <i>et al.</i>	All
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

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Examiner Signature	E. THERKORN	Date Considered	9/6/06
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

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Group Art Unit	1723
Examiner Name	Ernest G. Therkorn
Attorney Docket Number	USF-236XT

Sheet

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of

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
EGT	R1	ABE, I. <i>et al.</i> "A Simple and Versatile End-Sealing for Static Coating of Wide-Bore Glass Capillaries", <i>Chromatographia</i> , June 1989, pp. 631-632, Vol. 27, Nos. 11-12.	
EGT	R2	AOI, K. <i>et al.</i> "Globular Carbohydrate Macromolecule "Sugar Balls". 1. Synthesis of Novel Sugar-Persubstituted Poly(amido amine) Dendrimers", <i>Macromolecules</i> , 1995, pp. 5391-5393, Vol. 28.	
EGT	R3	AOI, K. <i>et al.</i> "Synthesis of Mono(Glycopeptide)-Persubstituted Dendrimers by Polymer Reaction with Sugar-Substituted $\alpha$ -Amino Acid N-Carboxyanhydrides(glycoNCAs)", <i>Macromol. Rapid Commun.</i> , 1998, pp. 5-9, Vol. 19.	
EGT	R4	AOI, K. <i>et al.</i> "Globular Carbohydrate Macromolecule "Sugar Balls" 3. "Radial-Growth Polymerization" of Sugar-Substituted $\alpha$ -Amino Acid N-Carboxyanhydrides (GlycoNCAs) with a Dendritic Initiator", <i>Tetrahedron</i> , 1997, pp. 15415-15427, Vol. 53, No. 45.	
EGT	R5	ASTRUC, D. <i>et al.</i> "The First Organometallic Dendrimers: Design and Redox Functions", <i>Topics in Current Chemistry</i> , 2000, pp. 229-259, Vol. 210.	
EGT	R6	BHATTACHARYA, S. <i>et al.</i> "Synthesis of Novel Cationic Lipids with Oxyethylene Spacers at the Linkages Between Hydrocarbon Chains and Pseudoglycerol Backbone", <i>Tetrahedron Letters</i> , 1999, pp. 8167-8171, Vol. 40.	
EGT	R7	BHYRAPPA, P. <i>et al.</i> "Dendrimer-Metalloporphyrins: Synthesis and Catalysis", <i>J. Am. Chem. Soc.</i> , 1996, pp. 5708-5711, Vol. 118.	
EGT	R8	BLOMBERG, L. G. "Current Aspects of Stationary Phase Immobilization in Open Tubular Column Chromatography", <i>Journal of Microcolumn Separations</i> , September 1990, pp. 62-68, Vol. 2, No. 2.	
EGT	R9	BRINKER, C. J. <i>et al.</i> "Sol-Gel Science" In: <i>The Physics and Chemistry of Sol-Gel Processing</i> , 1990, Academic Press, Inc. San Diego, CA.	
EGT	R10	CASADO, C. M. <i>et al.</i> "Redox-Active Ferrocenyl Dendrimers and Polymers in Solution and Immobilised on Electrode Surfaces", <i>Coordination Chemistry Reviews</i> , 1999, pp. 53-79, Vol. 185-186.	
EGT	R11	CHONG, S. L. <i>et al.</i> "Sol-Gel Coating Technology for the Preparation of Solid-Phase Microextraction Fibers of Enhanced Thermal Stability", <i>Anal. Chem.</i> , 1997, pp. 3889-3898, Vol. 69.	
EGT	R12	CUADRADO, I. <i>et al.</i> "Organometallic Dendrimers with Transition Metals", <i>Coordination Chemistry Reviews</i> , 1999, pp. 395-445, Vol. 193-195.	

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EGT	R13	GUO, Y. <i>et al.</i> "A Stationary Phase for Open Tubular Liquid Chromatography and Electrochromatography Using Sol-Gel Technology", <i>Anal. Chem.</i> , 1995, pp. 2511-2516, Vol. 67.	
EGT	R14	HAYES, J. D. <i>et al.</i> "Sol-Gel Chemistry-Based Ucon-Coated Columns for Capillary Electrophoresis", <i>Journal of Chromatography B</i> , 1997, pp. 3-13, Vol. 695.	
EGT	R15	HAYES, J. D. <i>et al.</i> "Sol-Gel Monolithic Columns with Reversed Electroosmotic Flow for Capillary Electrochromatography", <i>Anal. Chem.</i> , 2000, pp. 4090-4099, Vol. 72.	
EGT	R16	HAYES, J. D. <i>et al.</i> "Sol-Gel Open Tubular ODS Columns with Reversed Electroosmotic Flow for Capillary Electrochromatography", <i>Anal. Chem.</i> , 2001, pp. 987-996, Vol. 73.	
EGT	R17	HIERLEMANN, A. <i>et al.</i> "Structural Distortion of Dendrimers on Gold Surfaces: A Tapping-Mode AFM Investigation", <i>J. Am. Chem. Soc.</i> , 1998, pp. 5323-5324, Vol. 120.	
EGT	R18	JAMES, A. T. <i>et al.</i> "Gas-Liquid Partition Chromatography: The Separation and Micro-Estimation of Volatile Fatty Acids from Formic Acid to Dodecanoic Acid", <i>Biochem.</i> , 1952, pp. 679-690, Vol. 50.	
EGT	R19	KOIVUSALMI, E. <i>et al.</i> "Quantitative RP-HPLC Determination of Some Aldehydes and Hydroxyaldehydes as Their 2,4-Dinitrophenylhydrazone Derivatives", <i>Anal. Chem.</i> , 1999, pp. 86-91, Vol. 71.	
EGT	R20	KÖLLNER, C. <i>et al.</i> "Dendrimers Containing Chiral Ferrocenyl Diphosphine Ligands for Asymmetric Catalysis", <i>J. Am. Chem. Soc.</i> , 1998, pp. 10274-10275, Vol. 120.	
EGT	R21	KOPPENHOEFER, B. <i>et al.</i> "Backbone Modification of Chirasil-Val I. Effect of Loading on the Separation of Enantiomers by Gas Chromatography", <i>Journal of Chromatography A</i> , 1995, pp. 215-221, Vol. 699.	
EGT	R22	LEE, M. L. <i>et al.</i> "Polarizable Polysiloxane Stationary Phases for Capillary Column Gas Chromatography", <i>Journal of Chromatography A</i> , October 19, 1984, pp. 303-318, Vol. 302.	
EGT	R23	MALIK, A. <i>et al.</i> "Novel Cyanobiphenylpolysiloxane Stationary Phases for Gas and Supercritical Fluid Chromatography", <i>Journal of Microcolumn Separations</i> , September 1992, pp. 529-540, Vol. 4, No. 6.	
EGT	R24	MAYER, B. X. <i>et al.</i> "Characterization of Stationary Phases for Gas Chromatography by <sup>29</sup> Si NMR Spectroscopy II. Silphenylene-Siloxane Copolymers", <i>Journal of Chromatography A</i> , 2001, pp. 219-226, Vol. 917.	

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EGT	R25	NARAYANAN, V. V. <i>et al.</i> "Supramolecular Chemistry within Dendritic Structures", <i>Topics in Current Chemistry</i> , 1998, pp. 19-77, Vol. 197.	
EGT	R26	NAWROCKI, J. "Silica Surface Controversies, Strong Adsorption Sites, Their Blockage and Removal. Part I", <i>Chromatographia</i> , February 1991, pp. 177-192, Vol. 31, Nos. 3-4.	
EGT	R27	NEWKOME, G. R. <i>et al.</i> "Cascade Polymers: Syntheses and Characterization of One-Directional Arborols Based on Adamantane", <i>J. Org. Chem.</i> , 1991, pp. 7162-7167, Vol. 56.	
EGT	R28	NEWKOME, G. R. <i>et al.</i> "Suprasupramolecules with Novel Properties: Metallodendrimers", <i>Chem. Rev.</i> , 1999, pp. 1689-1746, Vol. 99.	
EGT	R29	NEWKOME, G. R. <i>et al.</i> "A Useful Dendritic Building Block: DI- <i>tert</i> -BUTYL 4-[(2- <i>tert</i> -BUTOXYCARBONYL)ETHYL]-4-ISOCYANATO-1,7-HEPTANEDICARBOXYLATE", <i>Tetrahedron Letters</i> , 1997, pp. 7053-7056, Vol. 38, No. 40.	
EGT	R30	PARK, J. H. <i>et al.</i> "Separation of Positional Isomers on A,C- and A,D-Bridged Calix[6]arene as Stationary Phases in Capillary GC", <i>J. High Resol. Chromatogr.</i> , December 1999, pp. 679-682, Vol. 22, No. 12.	
EGT	R31	ROY, R. <i>et al.</i> "Recent Applications of Olefin Metathesis and Related Reactions in Carbohydrate Chemistry", <i>Chem. Commun.</i> , 2000, pp. 519-529.	
EGT	R32	SANDRA, P. <i>et al.</i> "Mixed Phases of Superox 20M and OV-1 in Fused Silica and Glass Capillary Gas Chromatography", <i>Chromatographia</i> , June 1981, pp. 345-350, Vol. 14, No. 6.	
EGT	R33	SCHOMBURG, G. <i>et al.</i> "Alkylpolysiloxane Glass Capillary Columns Combining High Temperature Stability of the Stationary Liquid and Deactivation of the Surface Thermal Treatment of Dealkalinized Glass Surfaces by the Stationary Liquid Itself", <i>Chromatographia</i> , October 1979, pp. 651-660, Vol. 12, No. 10.	
EGT	R34	SHINBO, T. <i>et al.</i> "Separation of Aromatic Isomers on Cyclophane-Bonded Stationary Phases", <i>Journal of Chromatography A</i> , 2000, pp. 61-69, Vol. 877.	
EGT	R35	SMITH, D. K. <i>et al.</i> "Supramolecular Dendrimer Chemistry: A Journal Through the Branched Architecture", <i>Topics in Current Chemistry</i> , 2000, pp. 183-227, Vol. 210.	
EGT	R36	STODDART, F. J. <i>et al.</i> "Metal-Containing Dendritic Polymers", <i>Polyhedron</i> , 1999, pp. 3575-3591, Vol. 18.	

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EGT	R37	SUMPTER, S. R. <i>et al.</i> "Static Coating of 5 to 50 $\mu$ m I.D. Capillary Columns for Open Tubular Column Chromatography", <i>Journal of Chromatography A</i> , September 26, 1990, pp. 503-519, Vol. 517.	
EGT	R38	VENTURI, M. <i>et al.</i> "Electrochemical and Photochemical Properties of Metal-Containing Dendrimers", <i>Topics in Current Chemistry</i> , 1998, pp. 193-228, Vol. 197.	
EGT	R39	WANG, D. <i>et al.</i> "Sol-Gel Column Technology for Single-Step Deactivation, Coating, and Stationary-Phase Immobilization in High-Resolution Capillary Gas Chromatography", <i>Anal. Chem.</i> , 1997, pp. 4566-4576, Vol. 69.	
EGT	R40	WOOLLEY, C. L. "Deactivation of Fused Silica Capillary Columns with Polymethylhydrosiloxanes" <i>Journal of High Resolution Chromatography &amp; Chromatography Communications</i> , June 1984, pp. 329-332, Vol. 7.	
EGT	R41	WRIGHT, B. W. <i>et al.</i> "Free Radical Cross-Linking in the Preparation of Non-Extractable Stationary Phases for Capillary Gas Chromatography", <i>Journal of Chromatography A</i> , October 15, 1982, pp. 17-34, Vol. 248, No. 1.	
EGT	R42	YAKABE, Y. <i>et al.</i> "Immobilization Method for Polyethylene Glycol Using a Cross-Linking Co-Agent", <i>Journal of Chromatography A</i> , September 27, 1991, pp. 323-327, Vol. 558, No. 1.	
EGT	R43	YI, G. <i>et al.</i> "New Permethyl-Substituted $\beta$ -Cyclodextrin Polysiloxanes for Use as Chiral Stationary Phases in Open Tubular Column Chromatography", <i>J. Org. Chem.</i> , 1993, Vol. 4844-4850, Vol. 58.	
EGT	R44	ZENG, F. <i>et al.</i> "Dendrimers in Supramolecular Chemistry: From Molecular Recognition to Self-Assembly", <i>Chem. Rev.</i> , 1997, pp. 1681-1712, Vol. 97.	
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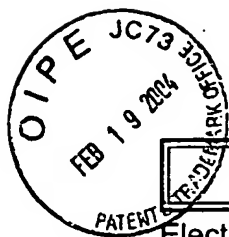
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Sheet 6 of 6

**ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18  
Stylesheet Version v18.0

<b>Title of Invention</b>	<b>Sol-Gel Dendron Separation and Extraction Capillary Column</b>																																																												
<p>Application Number: 10/716310</p> <p>Confirmation Number: 7300</p> <p>First Named Applicant: Abdul Malik</p> <p>Attorney Docket Number: 1372.204.PRWOUS</p> <p>Search string: ( 4043905 or 4746572 or 4756971 or 5082559 or 5224972 or 5308495 ),pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>EGT</td><td>1</td><td>4043905</td><td>1977-08-23</td><td>Novotny et al.</td><td></td><td></td><td></td></tr><tr><td>EGT</td><td>2</td><td>4746572</td><td>1988-05-24</td><td>Glajch et al.</td><td></td><td></td><td></td></tr><tr><td>EGT</td><td>3</td><td>4756971</td><td>1988-07-12</td><td>Virtanen et al.</td><td></td><td></td><td></td></tr><tr><td>EGT</td><td>4</td><td>5082559</td><td>1992-01-21</td><td>Eguchi et al.</td><td></td><td></td><td></td></tr><tr><td>EGT</td><td>5</td><td>5224972</td><td>1993-07-06</td><td>Frye et al.</td><td></td><td></td><td></td></tr><tr><td>EGT</td><td>6</td><td>5308495</td><td>1994-05-03</td><td>Avnir et al.</td><td></td><td></td><td></td></tr></tbody></table> <p><b>Signature</b></p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td>E. THERKORN</td><td>9/6/06</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	EGT	1	4043905	1977-08-23	Novotny et al.				EGT	2	4746572	1988-05-24	Glajch et al.				EGT	3	4756971	1988-07-12	Virtanen et al.				EGT	4	5082559	1992-01-21	Eguchi et al.				EGT	5	5224972	1993-07-06	Frye et al.				EGT	6	5308495	1994-05-03	Avnir et al.				Examiner Name	Date	E. THERKORN	9/6/06
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